chain nodes:
12 13 14 15 16
ring nodes:
12 23 4 5 6 7 8 9 10 11
chain bonds:
1-16 2-7 3-14 5-15 8-12 11-13
ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11
exact/norm bonds:
1-16 5-15 7-8 7-11 8-9 8-12 9-10 10-11 11-13
exact bonds:
2-7 3-14
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems:
containing 1:

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

#### L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR

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Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 08:46:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 43 TO ITERATE

100.0% PROCESSED 43 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 467 TO 1253

PROJECTED ITERATIONS: 467 TO 1253 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 sss full FULL SEARCH INITIATED 08:46:19 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 979 TO ITERATE

100.0% PROCESSED 979 ITERATIONS 15 ANSWERS SEARCH TIME: 00.00.01

L3 15 SEA SSS FUL L1

=> file caplus

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 ENTRY
 SESSION

 FULL ESTIMATED COST
 191.54
 191.76

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FILE COVERS 1907 - 22 Mar 2010 VOL 152 ISS 13
FILE LAST UPDATED: 21 Mar 2010 (20100321/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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# 10/594,251 Page 6 14 ARSMER 1 OF 4 CAPLUS ACCESSION NUMBER: 20 DOCUMENT NUMBER: 15

PATERT ASSISSEE(S): DOCUMENT TIPE: LANGUAGE: FAMILY ACC. NUM. CO FATENT INFORMATION:

PATERT NO.

US COPYRIGHT 2010 ACS on STN 2009:139163 CAPLUS 150:214157

KIND DATE

Preparation of pipmenylene tetranic acids as agreehenical herbicides Bretachreider, Thomas; Fischer, Beiner; Lange, Loher, Buckers, Delibert, Lange,
Loher, Buckers, Pouchet, Linge,
Franker, Now-Mentari Billie, Martin Onffrey, Zohoe,
Britger, Ann Goorgens, Ellivid, Beniers-Rath, Isolde
Byen Compdisones A.-O., Garmany
Ditter, Ann Composition of Co

APPLICATION NO.

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| No. 
AU 2008280973
PRIORITY APPLE, IMPO.:
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EP 2007-113674
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                                                                                                                                                                                          MARPAT 150:214157
    OTHER SOURCE(S):
    * STRUCTURE DIAGRAM TOO LANGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
                                      Tatle compds. I [N = N, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = N, alkyl, alkenyl, etc.; A, B = alkyl, haloalkyl, alkosy, etc.; D = NH, O; Ql, Q2 = N, alkyl, haloalkyl, etc.; G = N, CORL, SORN, SORN, etc.; K1 = alkyl, alkosy, alkosyalkyl, etc.; K3 = alkyl, alkosy,
    LA SUMMER NOT 4 CAPTER OFFICENCY DOES A TO SET MONOCASSION IN DESCRIPTION OF THE MONOCASSION OF THE M
                                                                                                                                                                                                                                               Jan Bayer Chemen A.-G., Germany RT Int. Appl., 211 pp.
COMUNIC PIXED2
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    PATENT ASSIGNEE(S):
SOURCE:
    DOCUMENT TYPE:
    LANGUAGE:
FAMILY ACC. NUM. COUNT:
FATENT INFORMATION:
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                                               PATERT NO.
                                                                                                                                                                                                                                                    KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                          MO 2006-EP10130 W 20061020
    ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LIUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 146:456840
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L4 AMEMER 1 OF 4 CAPLES COFFEIGHT 2010 ACS on STH I (Continued)
altylaming, etc.] were prope. For example, RGITH mediated coupling of
hipharpless III in 787 yealed. In schicabohala craz gallit protection
assays, 25-examples of compute. I exhibited ≥ 805 after 3-wt.

1112159-07-5F Et: MCR (Agricultural use); BSU (Biological study, unclassified); STN (Dynthetic preparation); BIOL (Biological study); FREF (Preparation); USES

(Uner)

(Uses) [preparation of hiphemyltetranic acids as agroches | herbicides) 111218-07-5 CAPUS | 1-Osa-9-aradispiro(4.2.4.2)tetradec-11-cm-10-ose, | 11-12-chloro-6-methomy-6-methylphemyl)-12-hydroxy- (CA INDEX NAME)

REPERENCE COURT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE PORMAT

14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

20 The invention relates to the preparation of alkonynthy; spinosystic sections.

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confinite.

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Relative stereochemistry

934819-63-3 CAPLD8 1-Azaspiro(4.5)dec-3-en-2-one, 3-(2-ohloro-6-methoxy-4-methylphenyl)-6-hydroxy-6-(2-methoxyethyl)-, cis- (CA INDEX NAME) Relative stereochemistry.

03/22/2010 Habte

L4 ANSMER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

934819-93-9 CARARS Propazoro acid, 2-methyl-, 1-12-chloro-6-methoxy-4-methylphenyl)-8-(2-methoxyethyl)-2-ozo-1-araspiro[4.5]dec-3-me-4-yl ester (CA INDEX NAME)

934820-22-1 CAPLUS Carbonic acus, (3%,7%)-3-(2-chloro-6-methoxy-4-methylphesyl)-7-(2-methoxyeshyl)-2-oxo-1-araspiro(4.5)dec-3-ec-4-yl ethyl exter, rel- (CA

934820-24-5 CAFLUS Carbonic acid, 2-chioro-f-nethoxy-4-nethylphenyl)-8-(2-nethoxyethyl)-2-oxo-1-azaspiro[4,5]deo-3-en-4-yl ethyl ester (CA INDEX NAME)

14 ARSMER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Relative storeochemistry.

OS.CITING REF COUNT: THERE ARE I CAPLUS RECORDS THAT CITE THIS (1 CITINGS)

14 DROMAL S OF 4 CAUCH COPPLISOT 2010 M2 on STR DROMAL STR DROMAL

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COM PATENT INFORMATION:

PATERT NO. KIND DATE

| ACTUAL DIA | ACT AT, RE, BG, CS, CY, CE, DE, DK, EE, ES, FI, FR, IS, IT, LI, LT, LU, MC, NL, FL, FT, RO, SE, SI,

IN 2006IN07760 2A 2006010747 MK 2006015186 KR 2007035045 UB 20090029858 WO 2005-EP6588 W 20050618

SIGNMENT BISTORY FOR US PATENT AVAILABLE IN LBUS DISPLAY FORMAT REX SOURCE(S): MARYAT 144:108201

14 ANSWER 7 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

AB Title compds. I [M=R], alkyl, halo, etc.; X= halo, alkyl, alkoxy, etc.; Y= 4-position with R, halo, alkoxy, etc.; Z=R with provisor; D=NR,

Q1 = 8, alkyl, alkosy, etc.; Q2 = 8, alkyl; G = COR1, SOZR3, etc.; R1 = alkyl, alkosyl, alkosyalkyl, etc.; R3 = alkyl, alkosy, alkylamino, etc.;

- alkandiyl (sic) with provisos; B = B, alkyl, alkenyl, etc.] were ared For example, O-acylation of alc. II (G=B) with 2-methylpropancyl chloride afforded enter II (G=COCR(CBT)2) in 944 yield. In Myrus persions protection assays at 100 g/ha, 92-examples of compds. I

exhibited
solv protection after 5 days.

17 87244-81-07
En / MS (Agricultural use) BSS (Biological study, unclassified) SSN
(Symbolic preparation); BSCA (Biological study); PREP (Preparation);

(preparation of 3-alkoxylspirotetramic acids and related compds. as

n-Bu0

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS (3 CITINGS)

03/22/2010

14 AREMER 3 OF 4 CAPLUS COPTRIGHT 2010 ACS on STN (Continued)
REFERENCE COUNT: 8 TERRE ARE 8 CITED REFERENCE AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE TOTALT

O COPYRIGHT 2010 ACS on STN 2005:1067392 CAPLUS 143:167201 L4 ANSMER 4 OF 4 CAPLUS ACCESSION NUMBER: 2 DOCUMENT NUMBER: 1

TITLE

143:167701
Preparation of of spirocyclic phenylpyrrolidinedional and related compounds as herbicides
Fischer, Feinberg; Fretscheneider, Thomas; Kung, Klaus; Leht, Stefan; Feucht, Bueter; Loesel, Feinc; Malsan, Olga; Bojach, Guide; Marold, Christian; Muler,

Hills, Martin; Kehme, Heins Bayer Cropscience A.-G., Germany Ger. Offen., 170 pp. COMEZN: GMOXING Fatent German

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INCOMATION:

	PATERT NO.				KIMD		DATE			APPLICATION NO.						DATE		
	DE 102004014620			81		20051006			DE 2004-102004014620					20040325				
	AU 2005225508 CA 2561076			A1		20051006		MJ 2005-225508					20050311					
					8.1		20051006		CA 2005-2561076						20050311			
	WO 2005092897				3.2		2005	1006	MO 2005-EP2605						20050311			
	WO 2005	WO 2005092897			A3 20070215													
	W:						AU,											
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		GE,	GH,	GN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	295,	XP,	XX,	XI,	LC,	
		LE.	LB.	LS.	LT.	LU,	LV.	NA.	ND.	NG,	MK,	NN.	NW.	NO.	NE.	Nh.	NI.	
		NO.	NE.	CN.	PG.	PH.	PL.	PT.	BO.	BU.	sc.	SD.	SE.	90,	SE.	SL.	384	
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		no,	SE,	SI,	SK,	TR,	BF,	BJ,	CF,	CG,	CI,	CN,	GA,	GN,	99,	GW,	ML,	
		ME,	NE.	SN.	TD,	TG												
	EP 1732930			VS 50001550			EP 2005-728341						20050311					
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		18,	IT.	LIL	LT.	LU,	NC.	NL	PL.	PT.	80,	SE.	SI.	88.	TB.	ALL	Bhe	

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CN 1380336
HR 2005007876
JF 2005030472
IN 2005007810
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EX 2005007869
KR 2007028868
PRIORITY APPLN: HRM:: CN 2005-80014097 20050311
E2 2005-70 76 20050311
JP 2007-504296 20050311
JP 2007-504296 20050311
RK 2006-10701 20060920
RK 2006-10701 20060920
RK 2006-721888 20061020
EX 2006-721888 20061020
ID 2004-102004014620X 20040325 20070613 20070724 20071101 20070803 20061215 20080430

MO 2005-EP2605 W 20050311 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY POPMAT OTHER SOURCE(S): MARPAT 147:367201

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

All This company, 3 [5] which y = ally], 2 w Durchwesters | Professional Company | 200 volumes | 200

8 (Uses) (preparation of of spirocyclic phenylpyrrolidinediones and related

ds. as herbicides)

set 386-13-4 CARUNS

866386-13-4 CARUNS

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866386-13-4 CARUNS

3-(1-chloro-6-nethosy-4-nethylphenyl)-4-hydroxy- (CA INDEX NUME)

PN 844384-16-5 CAPRUS CN 28-Pyrrol-2-ome, 3-(2-chloro-6-methoxy-4-methylphenyl)-1,5-duhydro-4-

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) hydroxy-5,3-dimethyl- (CA IMDEX NAME)

866386-17-6 CAPLUS 1-Ataspiro [4.5] dec-3-en-2-one, 3-(2-chloro-6-methoxy-4-methylphenyl)-4-hydroxy-8-methoxy-, (5m,8m)- (CA INDEX NAME)

866386-18-7 CAPLUS 1-Axaspiro[4.5]dec-3-en-2-one, 3-(2-ohloxo-4-methyl-6-proposyphenyl)-4-hydroxy-8-methoxy-, (5m.8m)- (CA INDEX NAME)

866386-19-0 CAPLNS
Propanoic acid, 2-methyl-, (5w,8w)-3-(2-chloro-6-methoxy-4-methyl)henyl)-8-methoxy-2-cuc-1-azaspizo[4.5]dec-3-en-4-yl ester (CA INDEX NUMBE)

14 ARSMER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

866386-20-1 CAPLUS Acetic acid, 2-ethoxy-, -chloro-6-enthoxy-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-18-pyrrol-3-yl enter (CA INDEX NAME)

333 866386-22-2 CAPLOS CRI Carbonic acid, cus-3-(2-0hior-6-methody-6-methylphenyl)-8-methody-2-odo-1-axaspixo(4.5)dec-3-em-4-yl ethyl ester (9Cl) (CA INDEX NAME) Relative stereochemistry.

RE 866386-22-3 CAPLUS CS Carbonic acid, 4-(2-chloro-6-methoxy-4-methylphenyl)-2,5-dilystro-2,2-

14 AMEMER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) dimethyl-5-oxo-1E-pyrrol-3-yl ethyl exter (CA INDEX NAME)

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (1 CITINGS)

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